

on receipt of the routing area update message, sending a mobile Internet protocol agent advertisement to the mobile system.

Amended Claim 2

2. A method according to claim 1 in which the advertisement includes challenge/response and network access identifier extensions.

Amended Claim 3

3. A method according to claim 1 in which the advertisement is sent on a traffic channel.

Amended Claim 4

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4. A method according to claim 1 in which the mobile Internet protocol movement detection algorithm detects a change of foreign agent of the mobile system.

Amended Claim 5

5. A method according to claim 4 in which on detection of a change of foreign agent, the mobile system is registered by mobile internet protocol registration.

Amended Claim 6

6. A method according to claim 1 in which the former and new routing areas are within the same or different support networks, and the advertisement is sent after successful sending and receipt of routing area update request, acceptance and completion messages.

Amended Claim 7

7. A method according to claim 1 in which the former and new routing areas are within different radio network controllers and the advertisement is sent after successful sending and receipt of radio network controller relocation request and completion messages.